Title: Method And System For Data Analysis
Inventor(s): Hoffman
Serial No. Not yet assigned
Docket No. ANY-004
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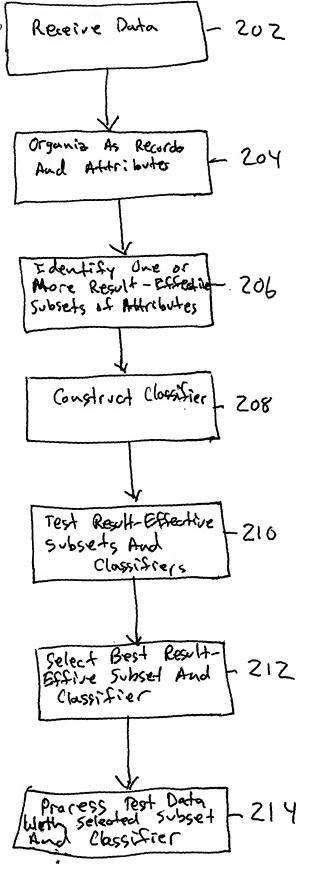
Figure 1

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## **Ideal Case**

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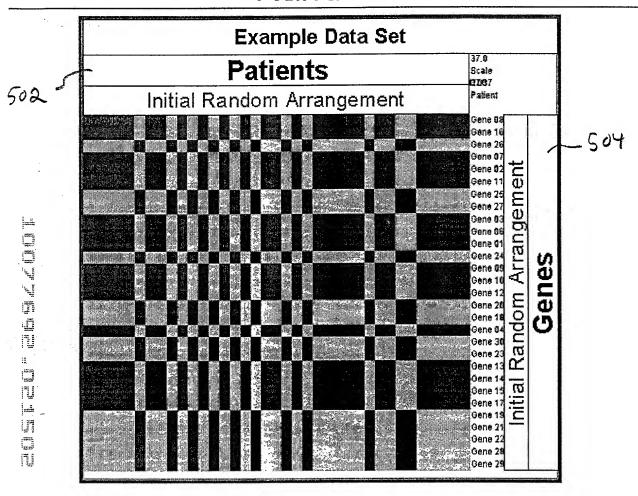


Figure 5A

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**Ideal Case** 

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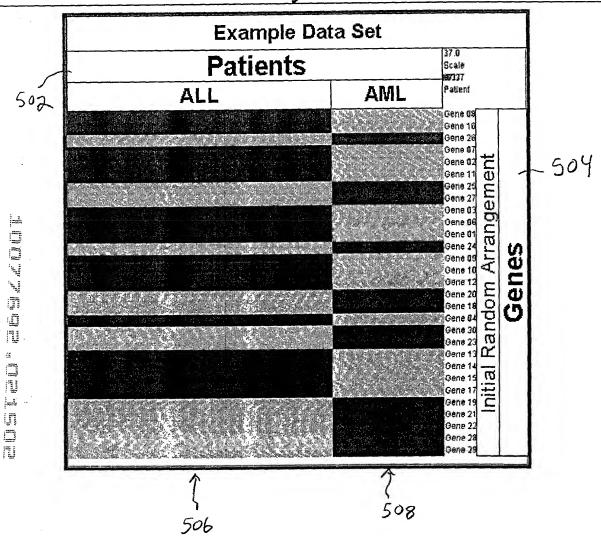


Figure 5B

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## Ideal Case

Grouped on Genes

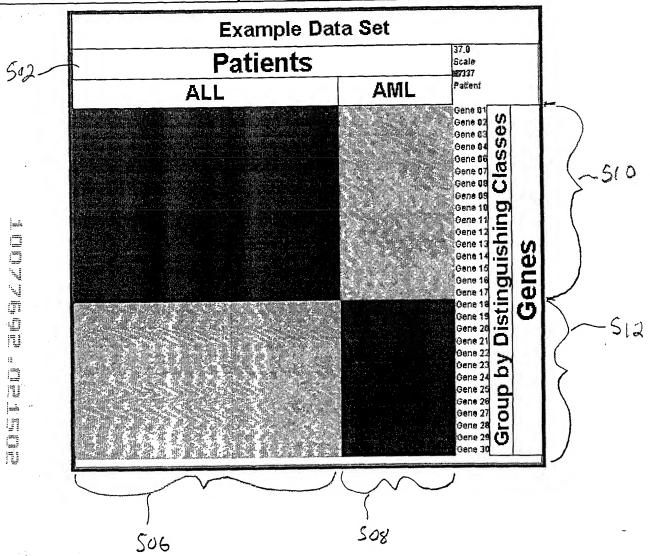


Figure 50

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## Random

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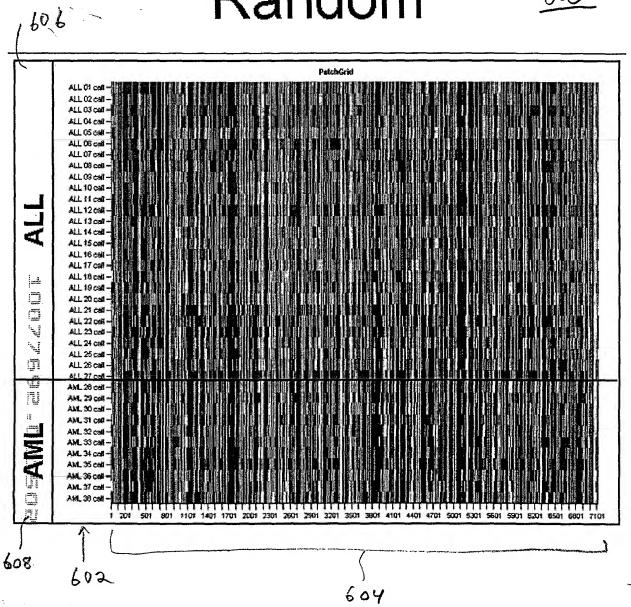


Figure 6A

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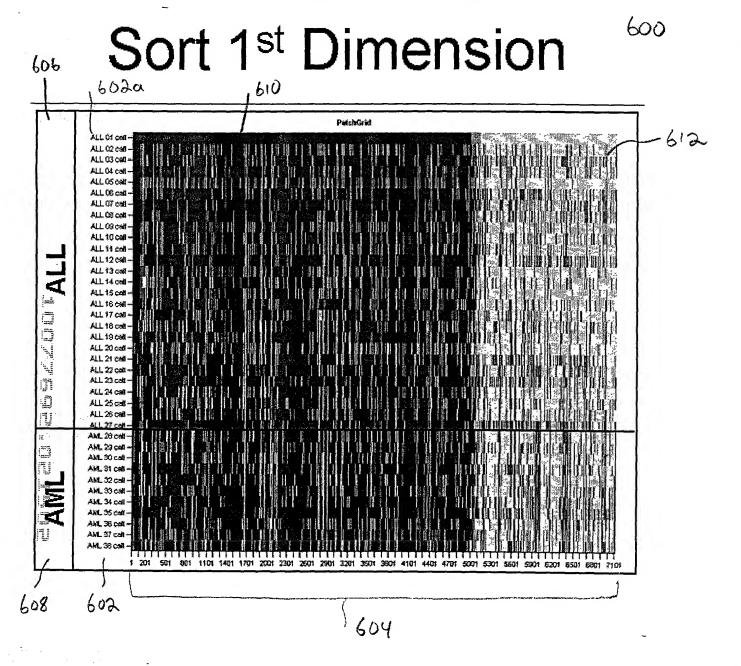


Figure 6 B

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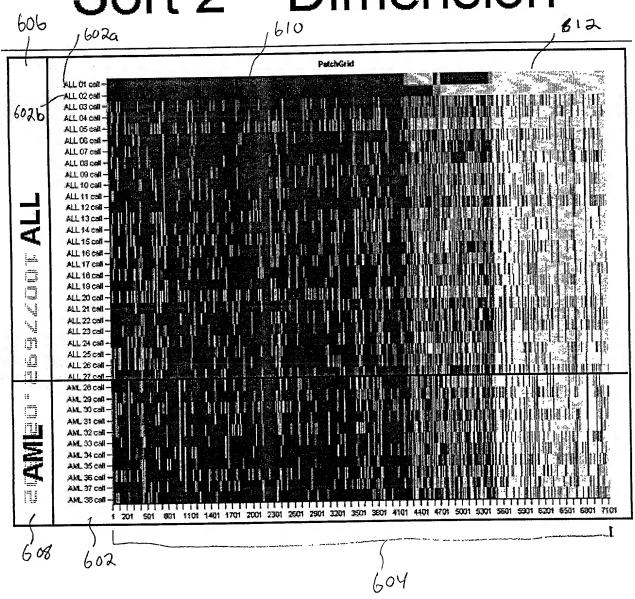


Figure 6C

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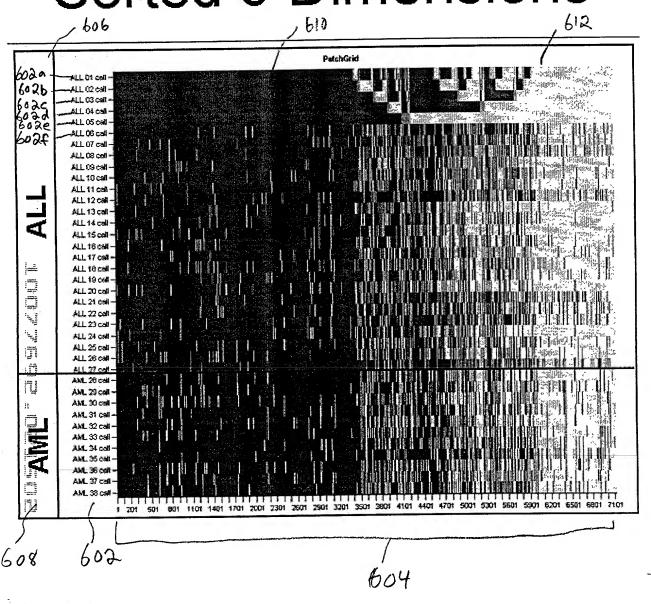


Figure 60

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# Sorted 33 Dimensions

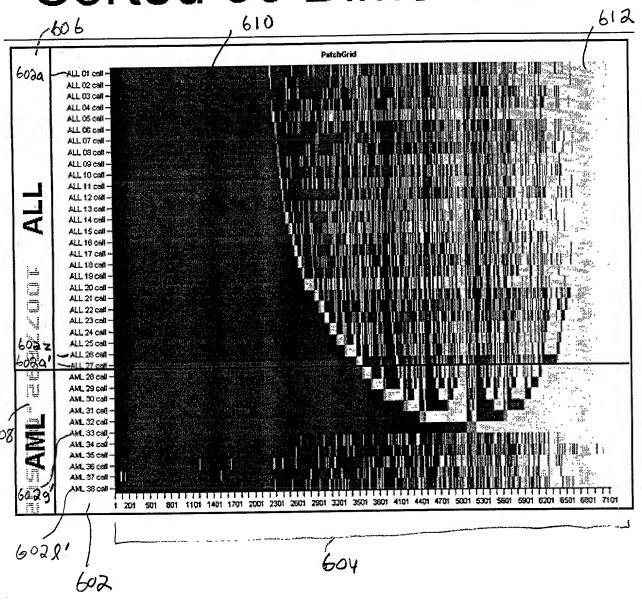


Figure BE

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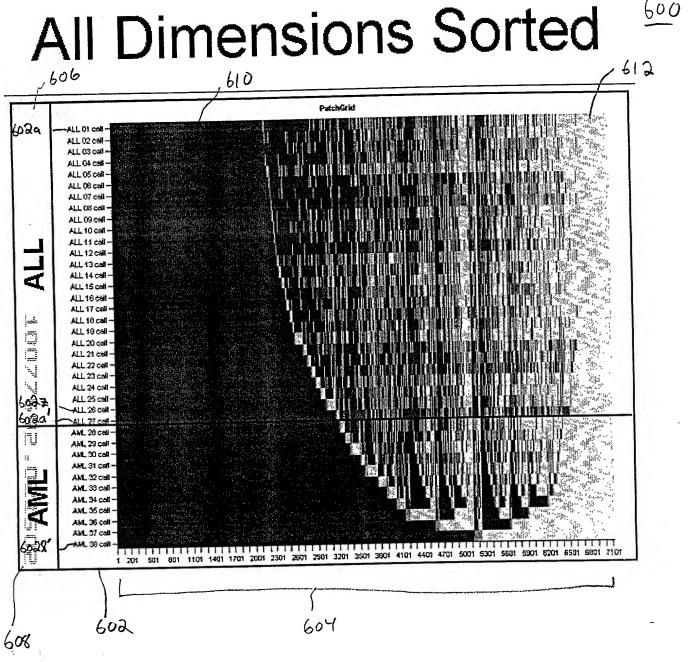
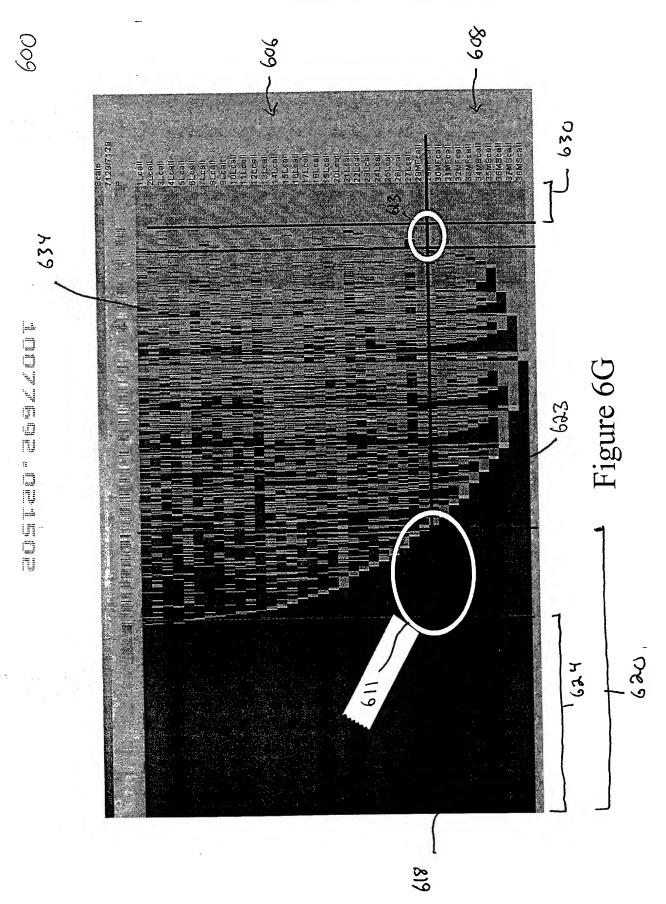
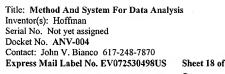


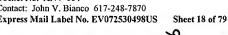
Figure 6F

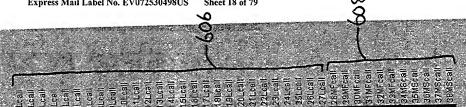
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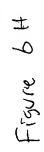




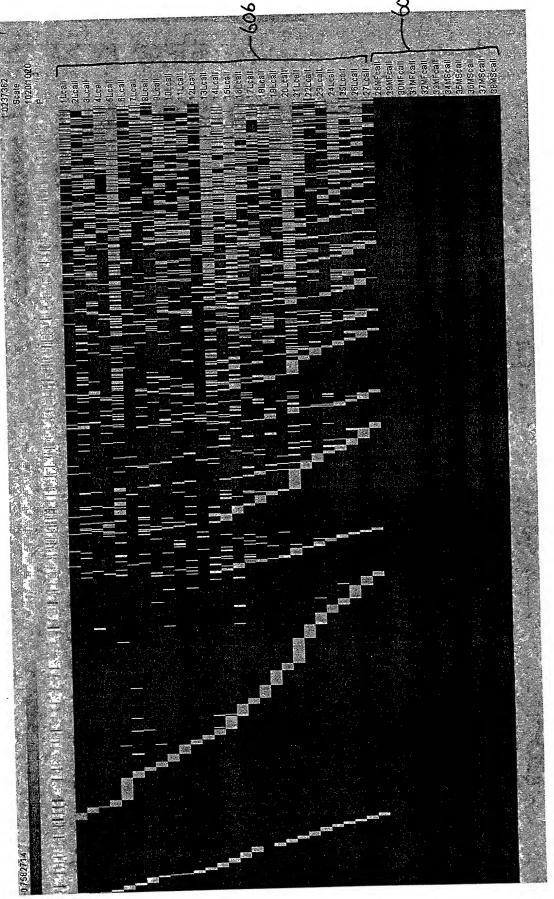


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Principal Uncorrelated Record Selection

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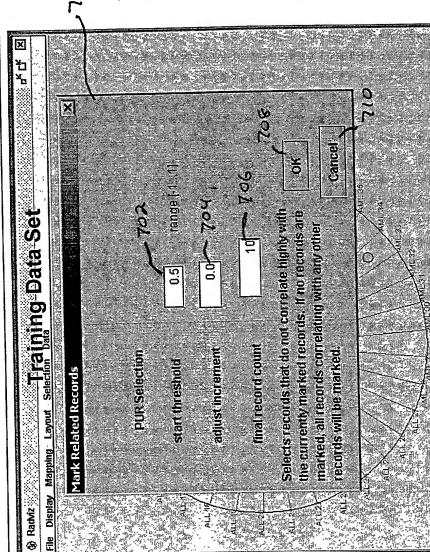


Figure 7

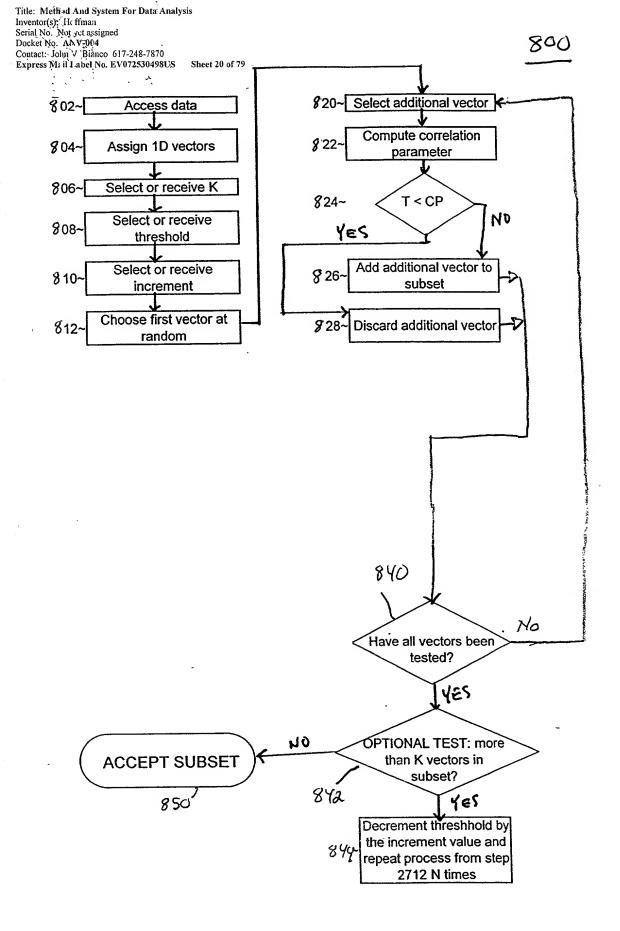


Figure 8

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# 76 Principal Uncorrelated Genes

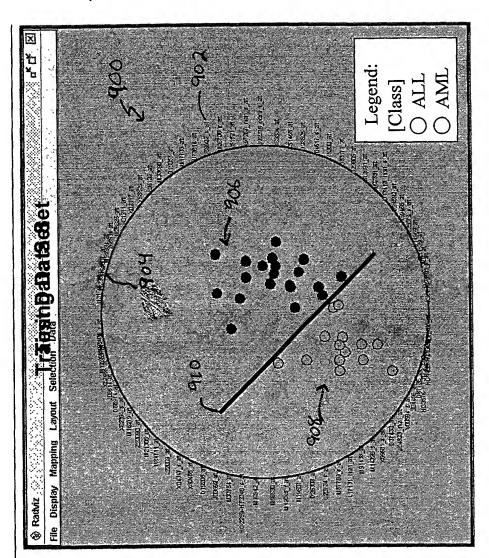
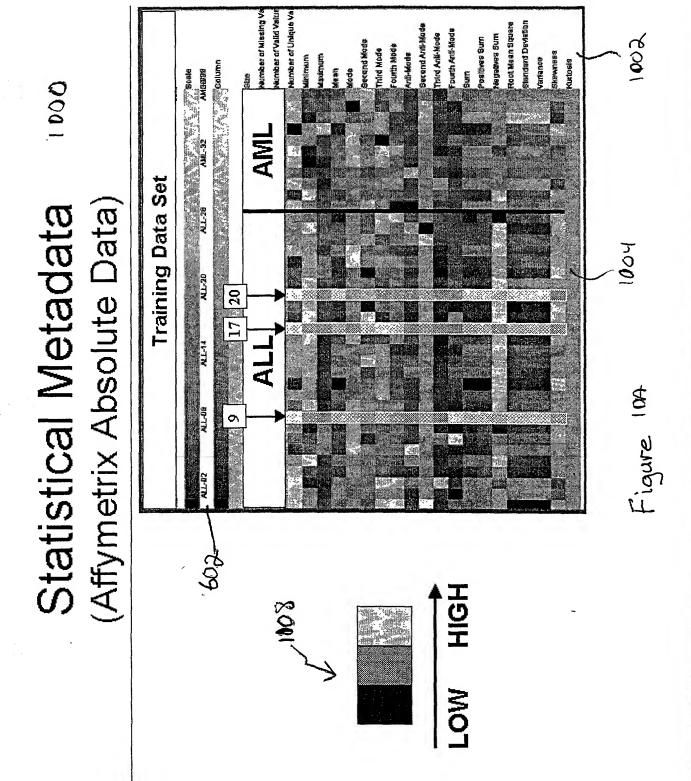


Figure 9

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Pearson Correlation Coefficients (Affymetrix Absolute Data)

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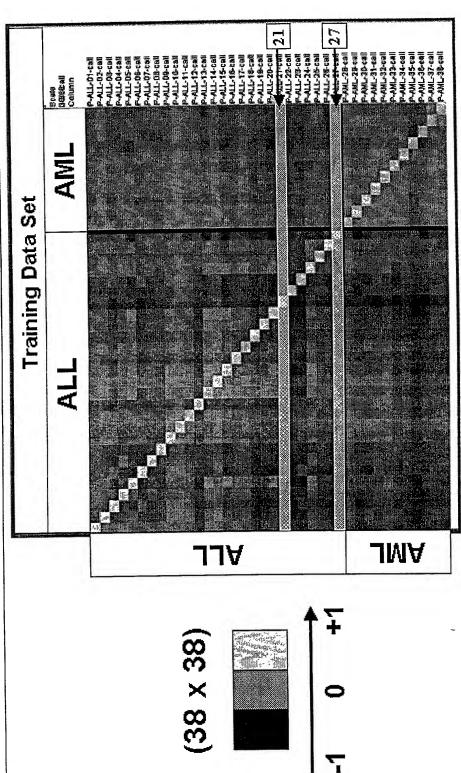
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# Pearson Correlation Coefficients (Affymetrix Comparative Data)



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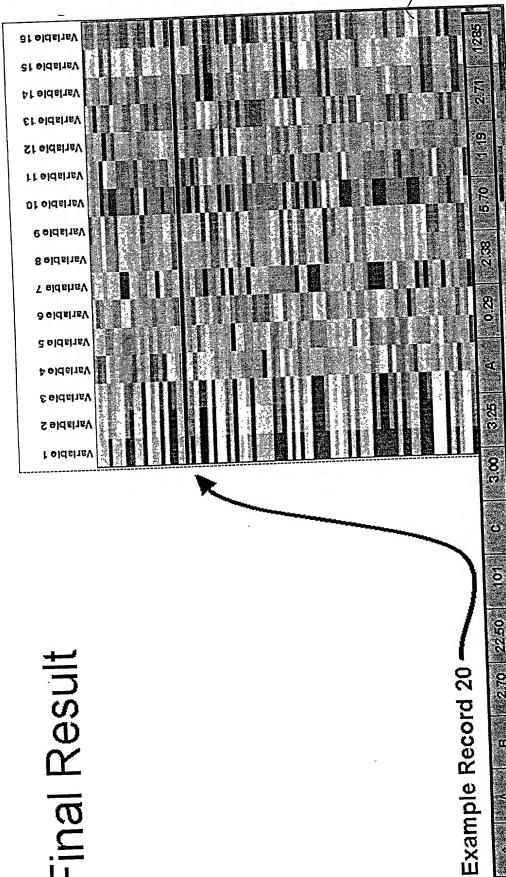
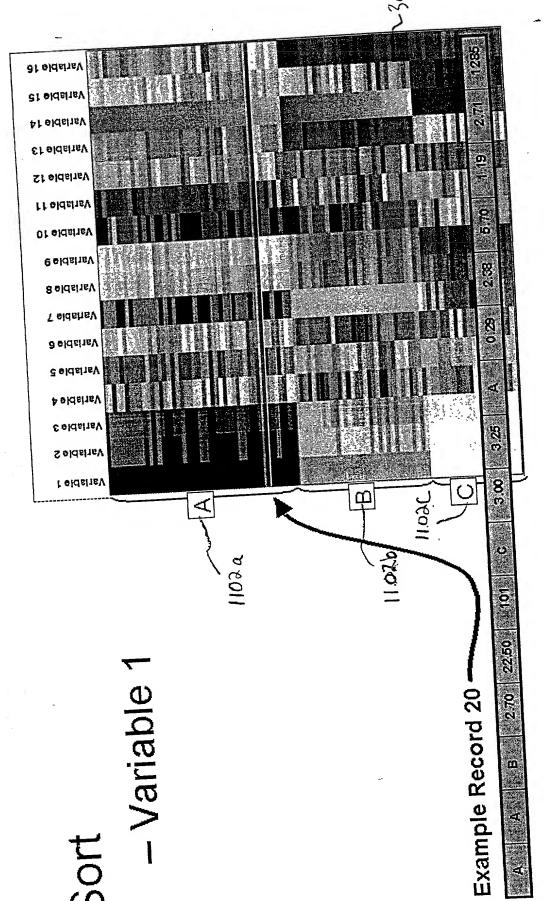


Figure 11 A

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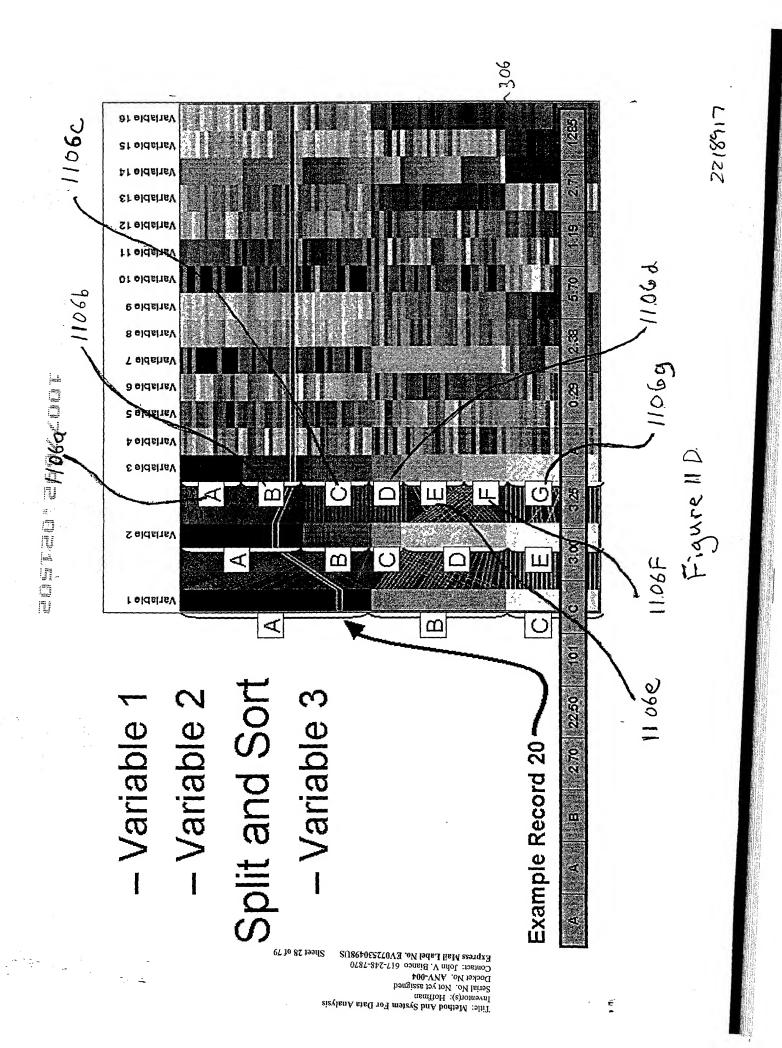
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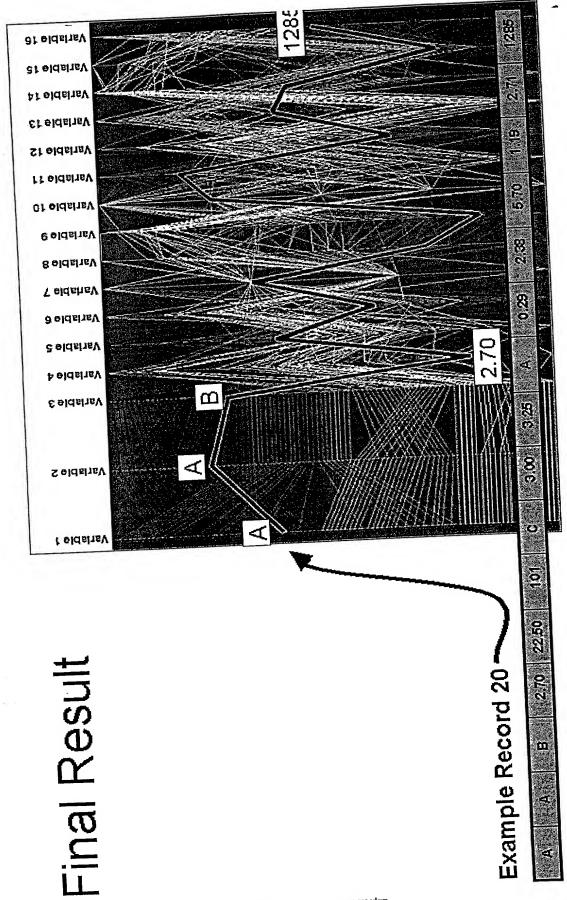


Figure 11E

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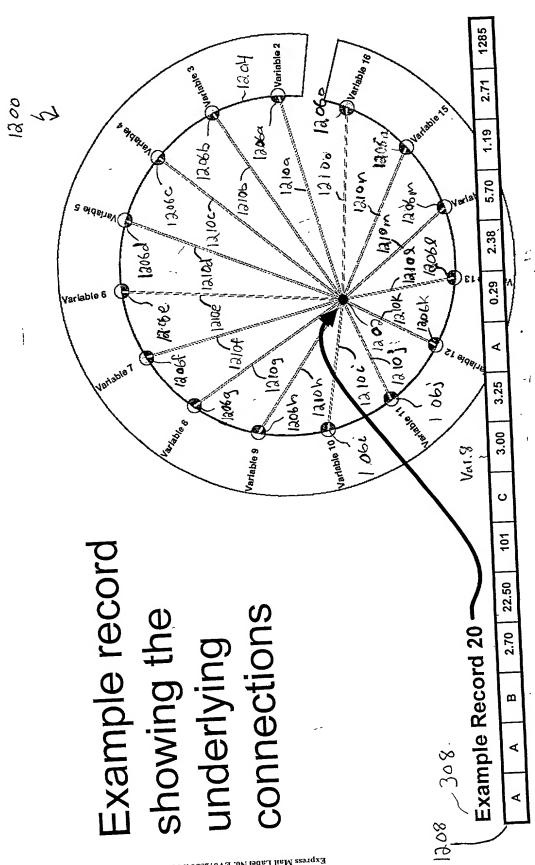
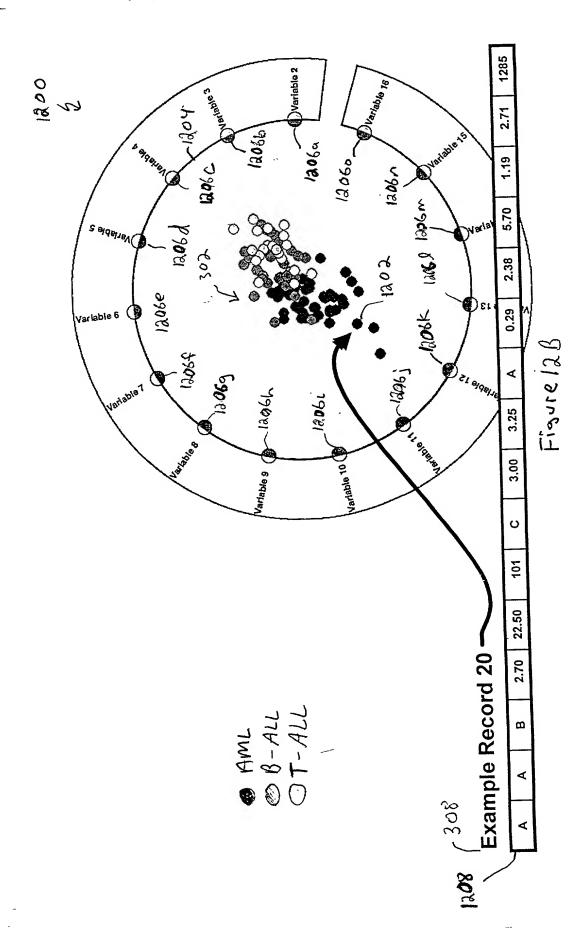


Figure 12 A

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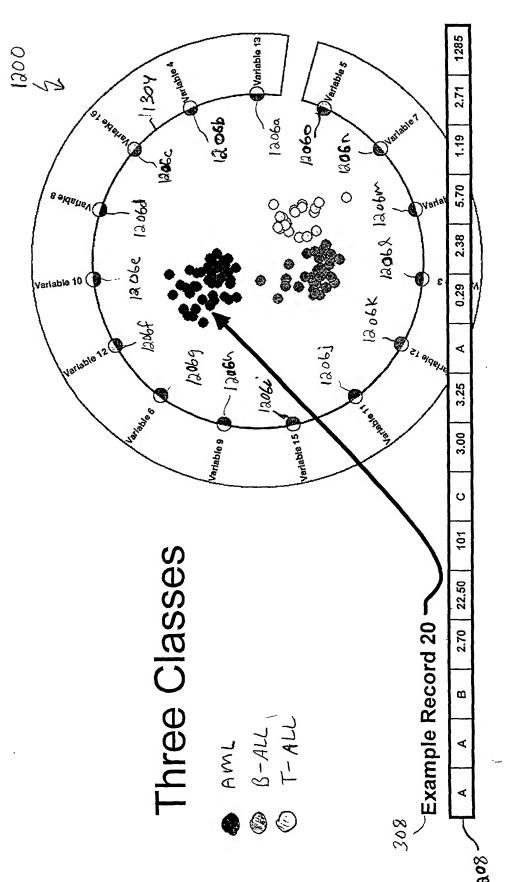
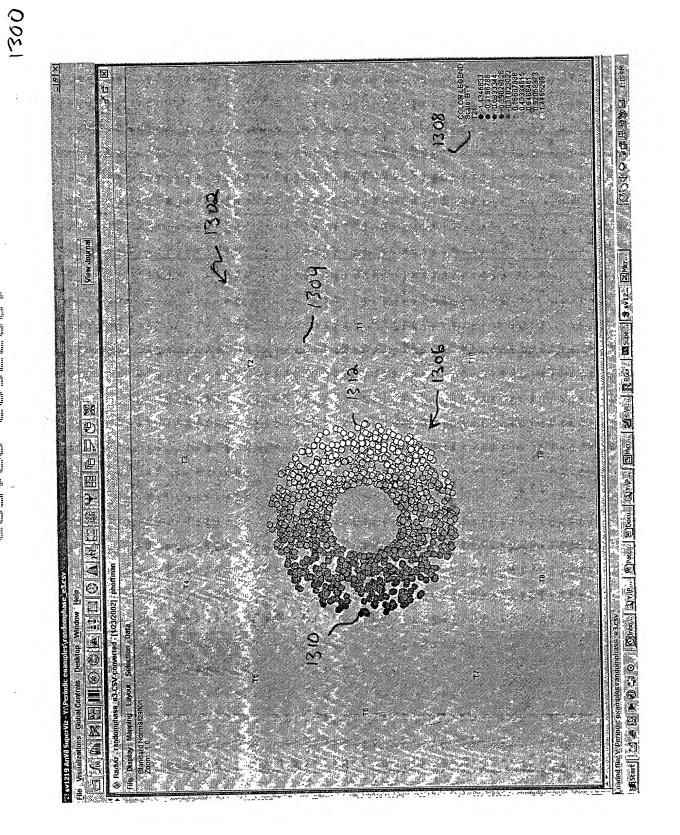


Figure 12 C

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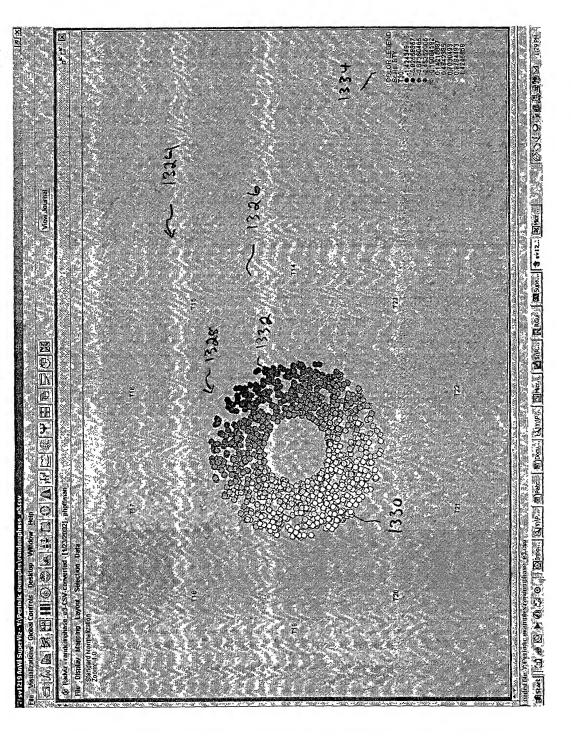
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Figure 13B

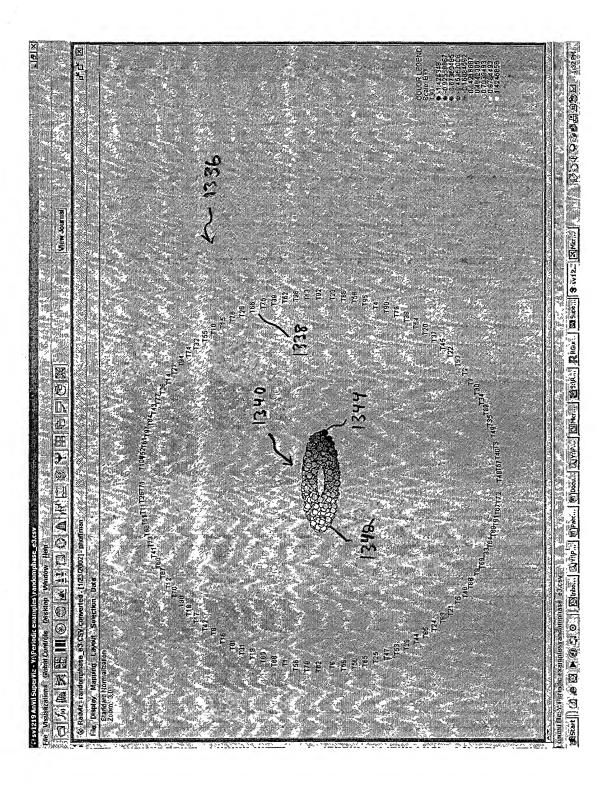
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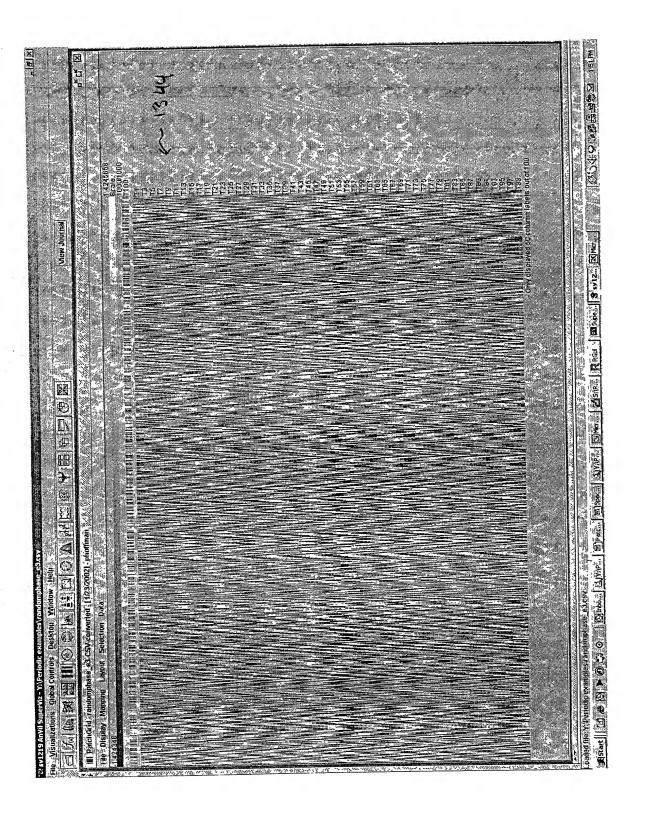
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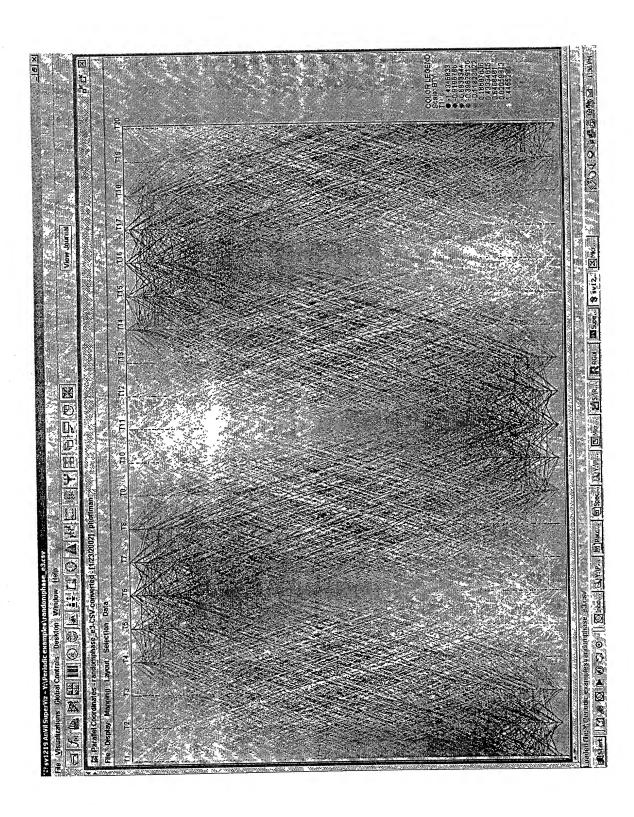
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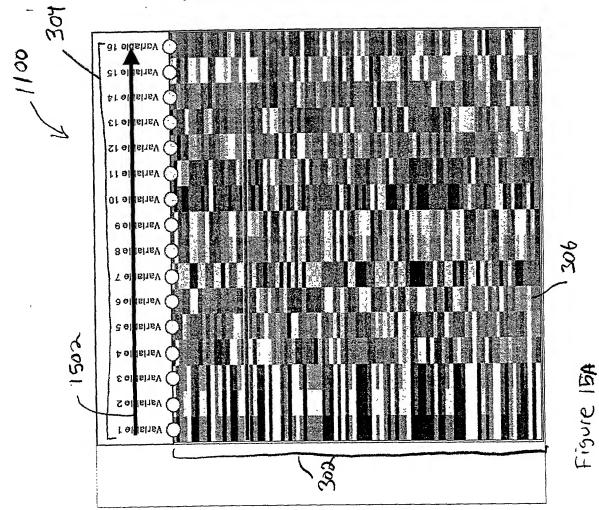
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Transforming a rectangular to a radial layout

radial layout

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Radial Layout

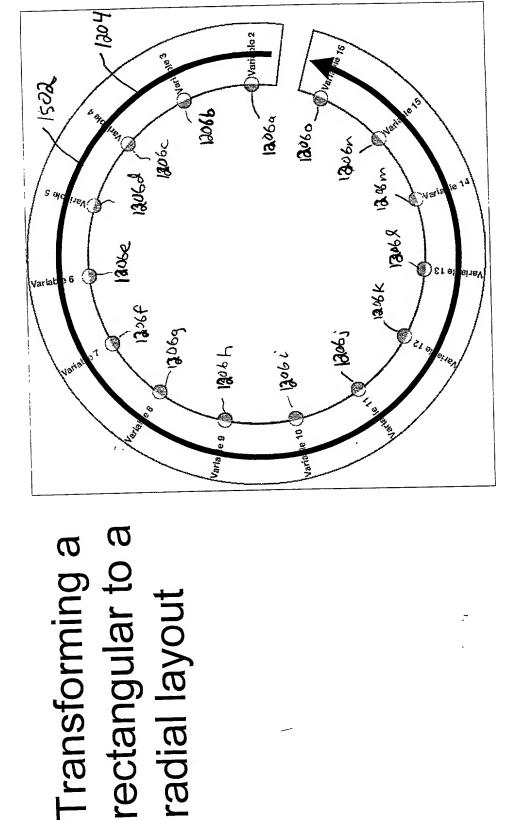
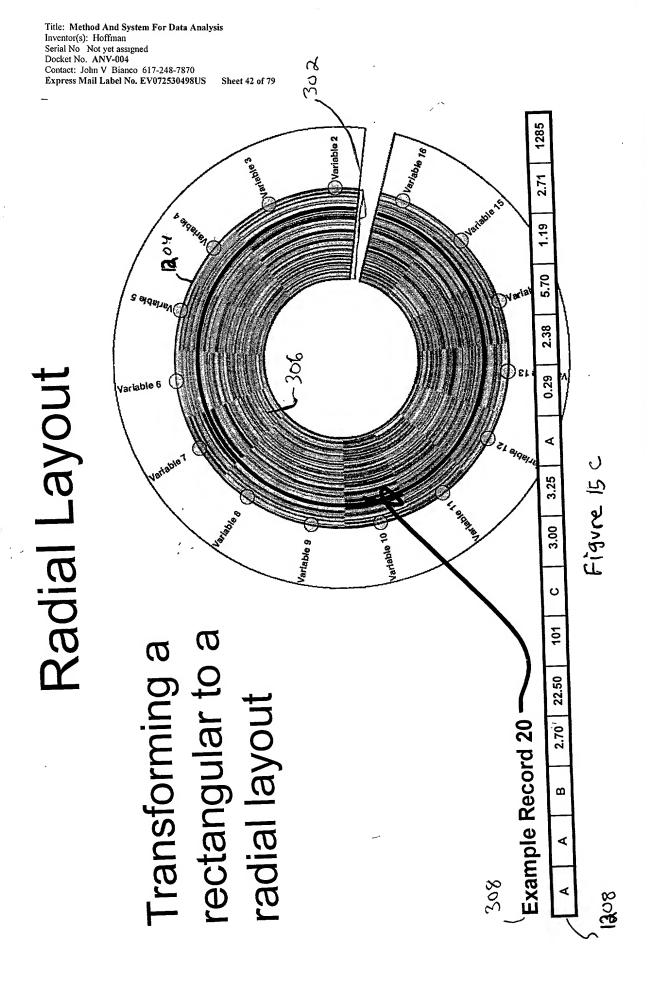
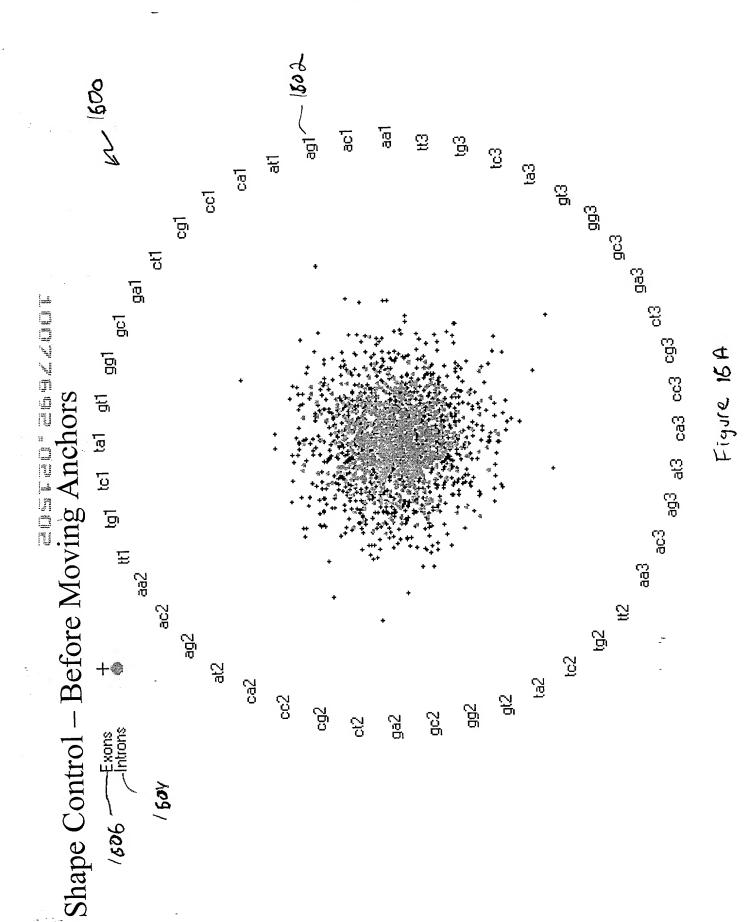


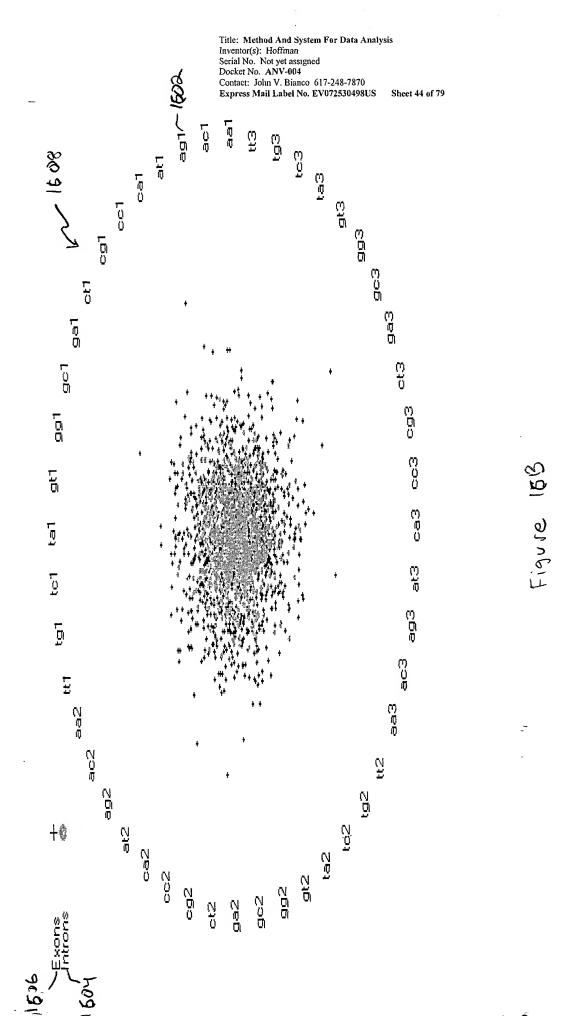
Figure 150

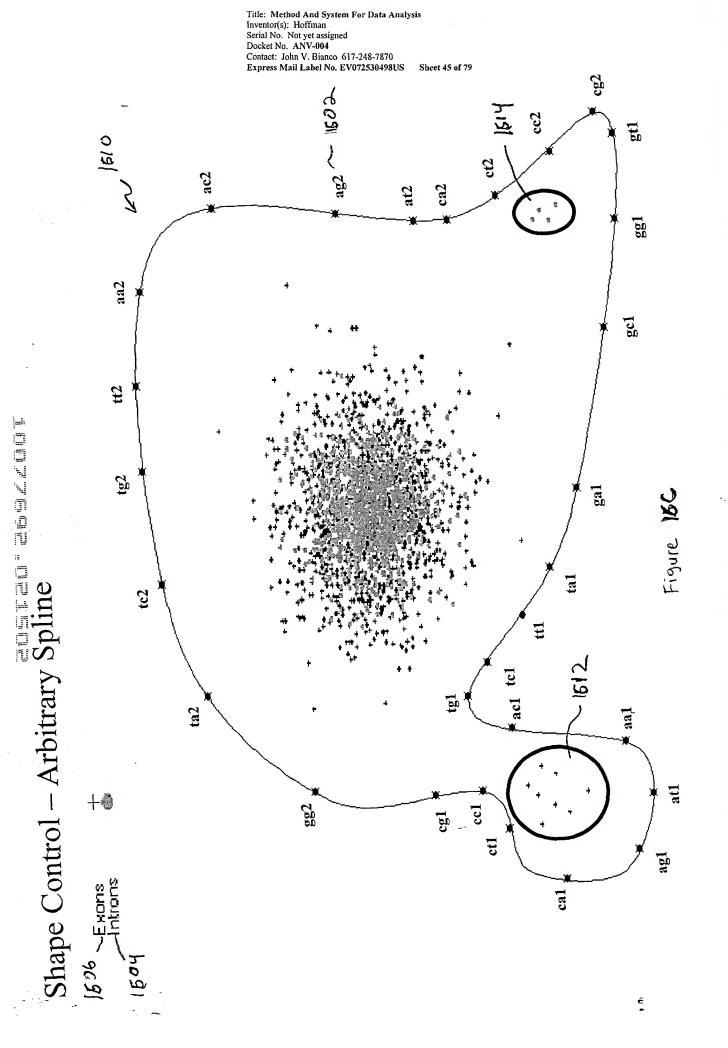
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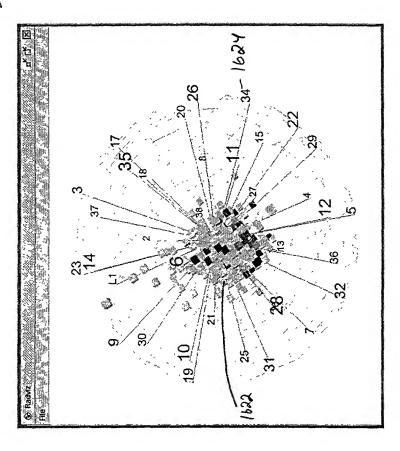


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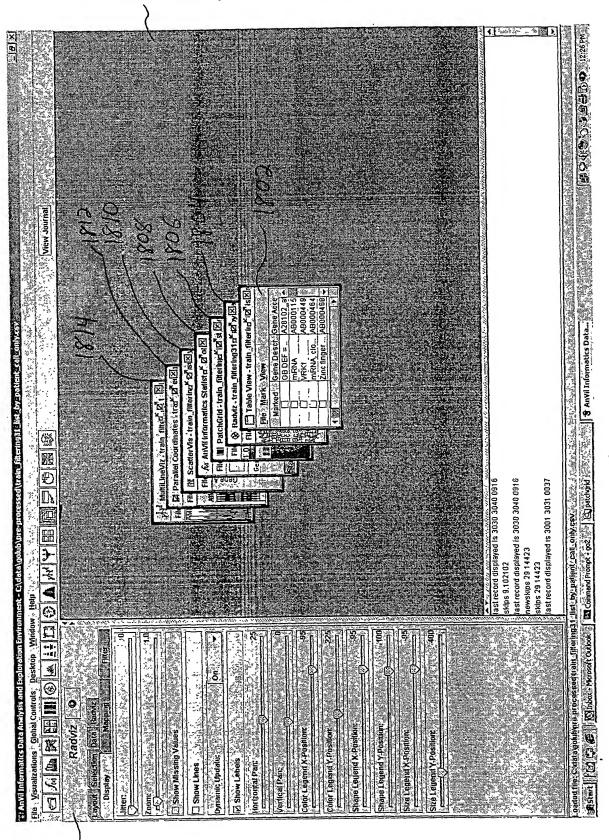
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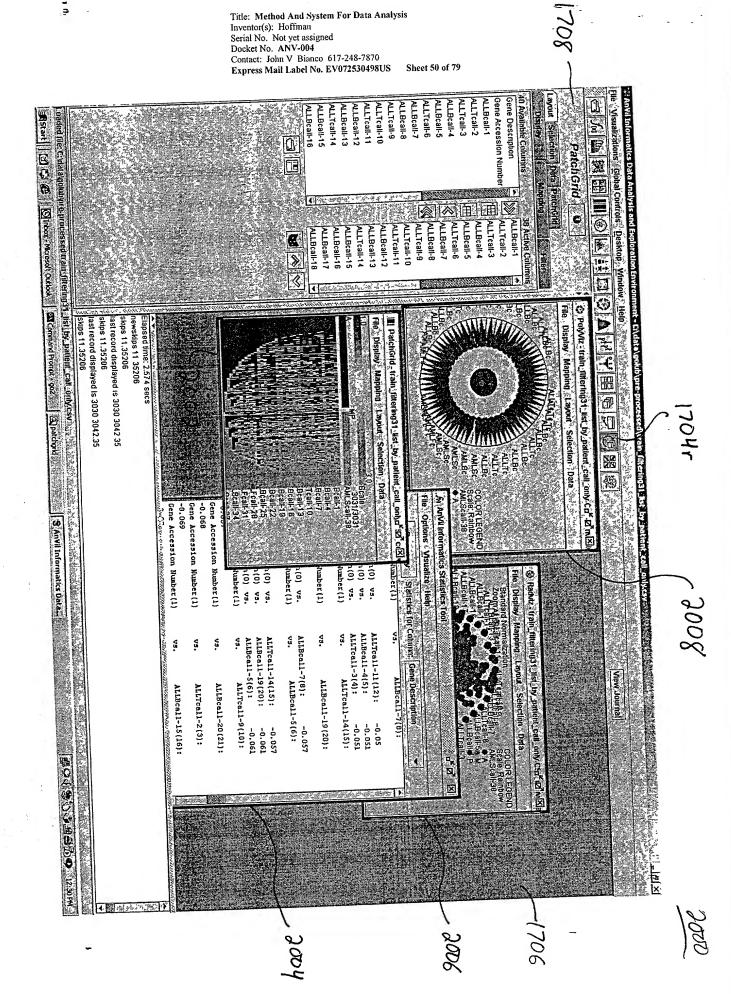
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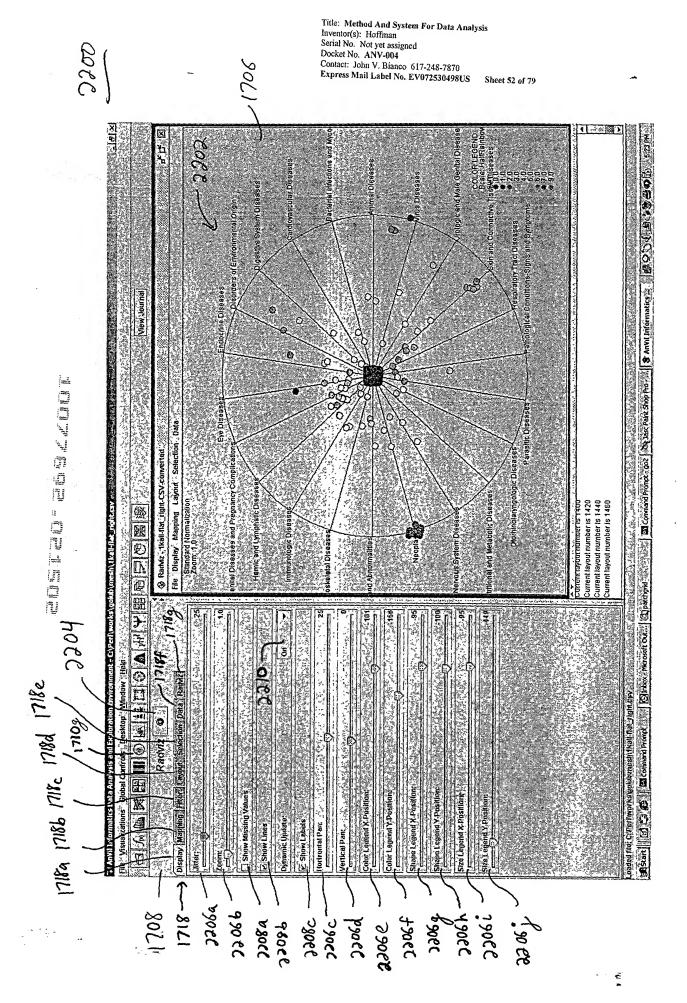
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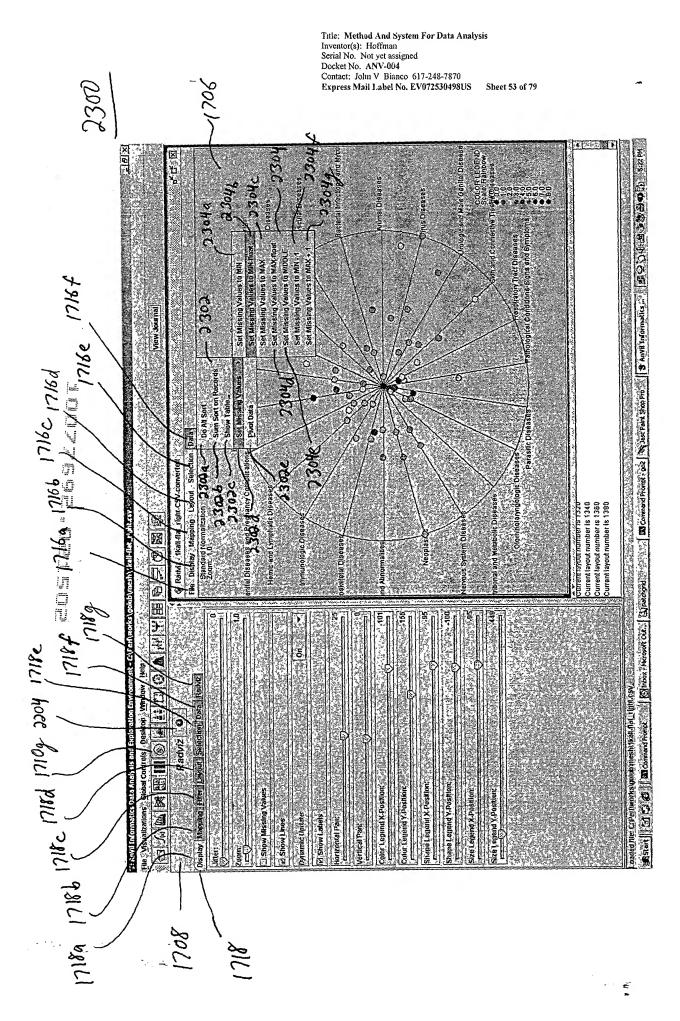


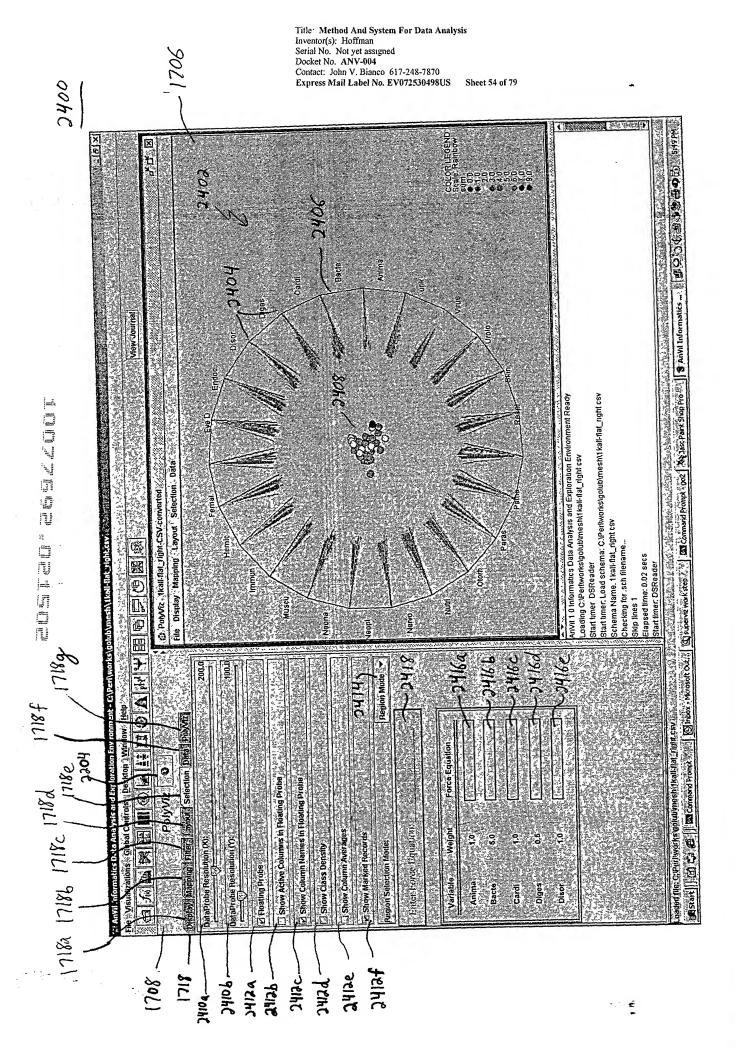


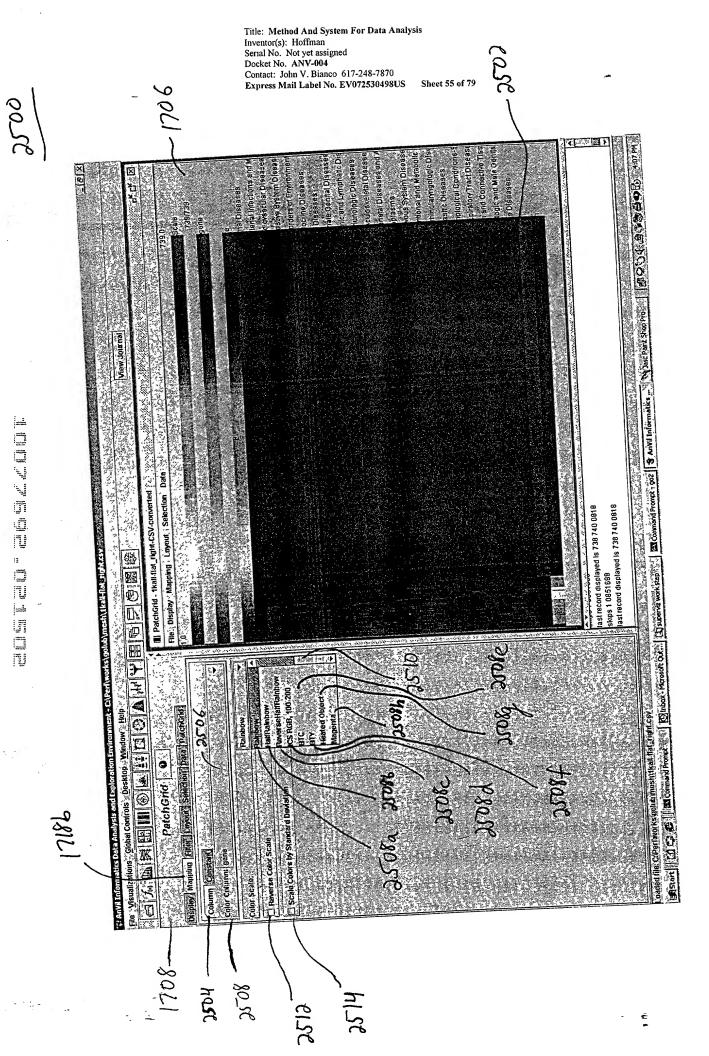
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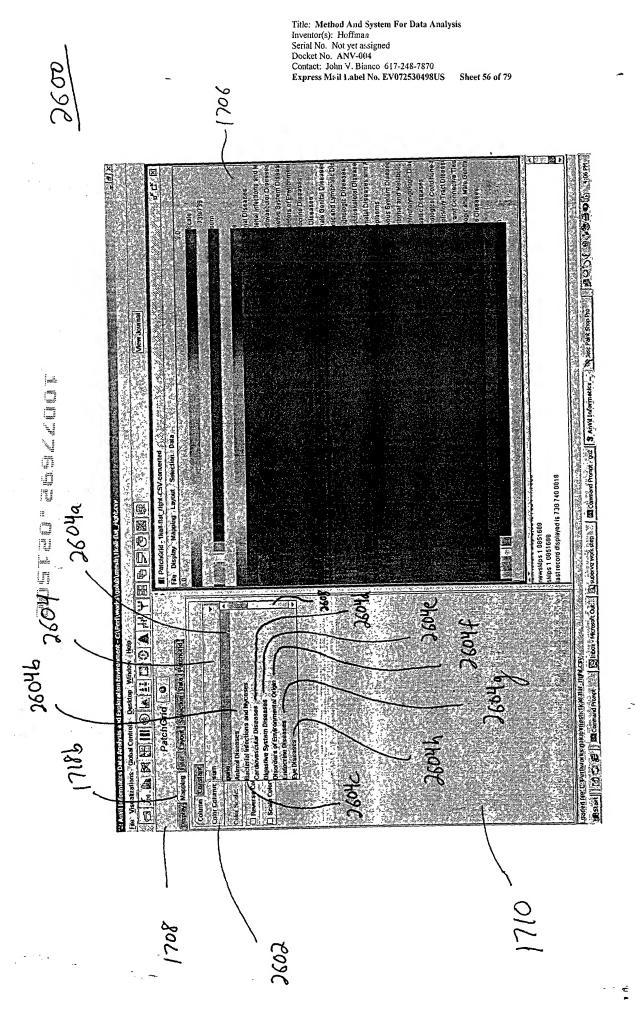
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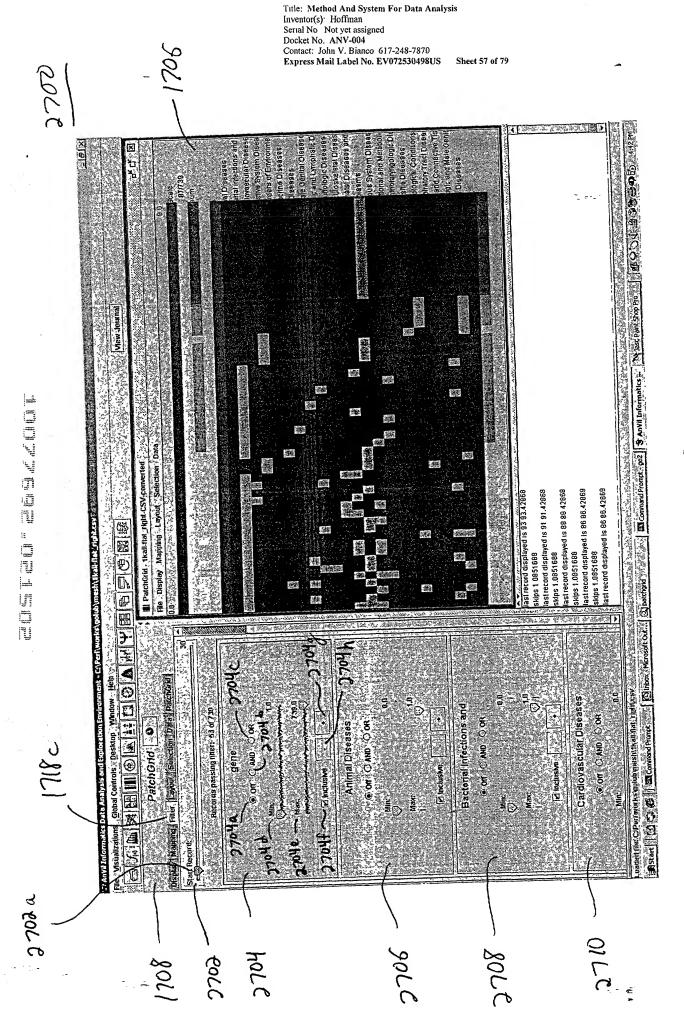
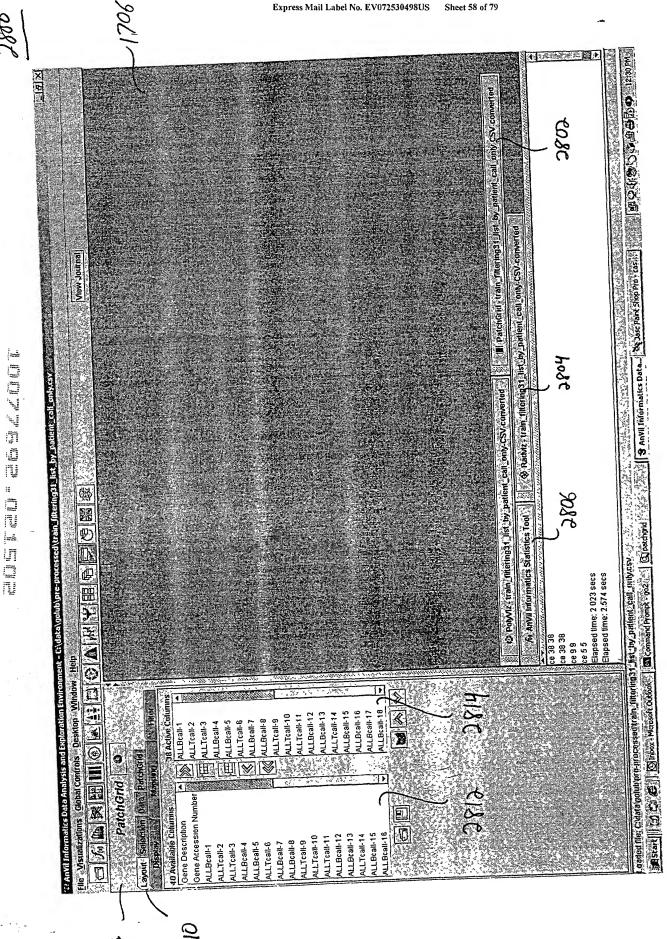


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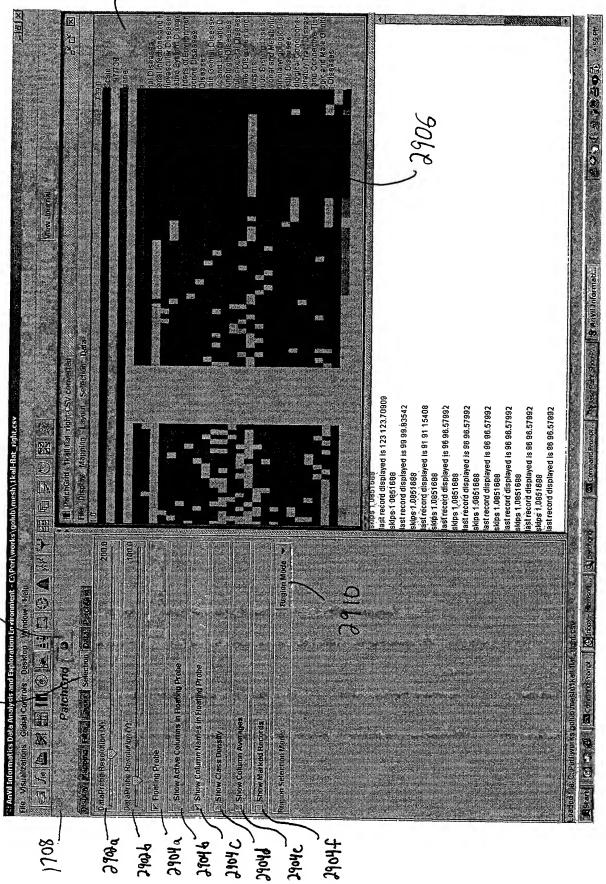
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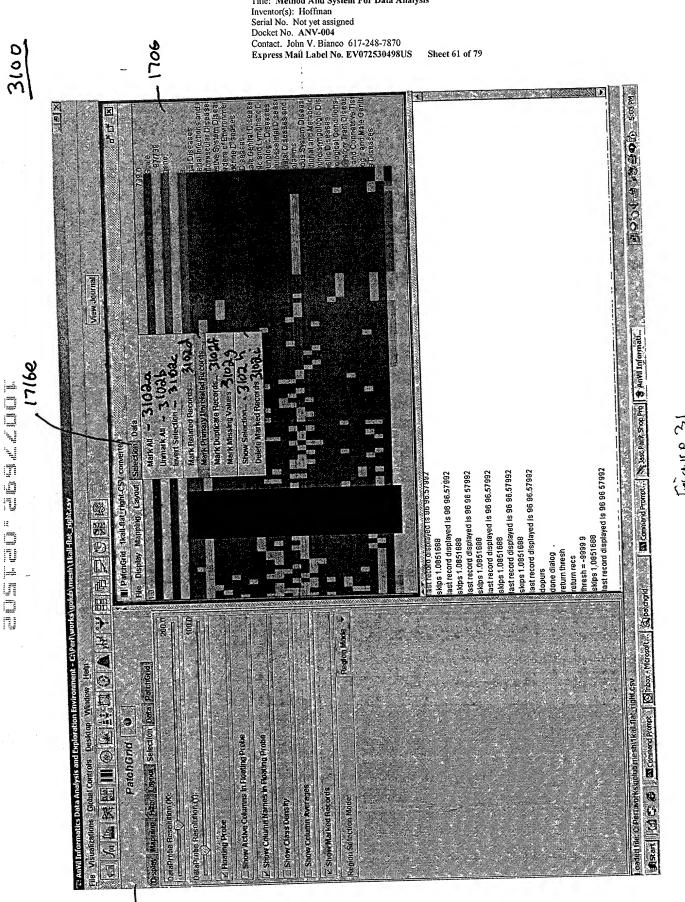
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Figure 30

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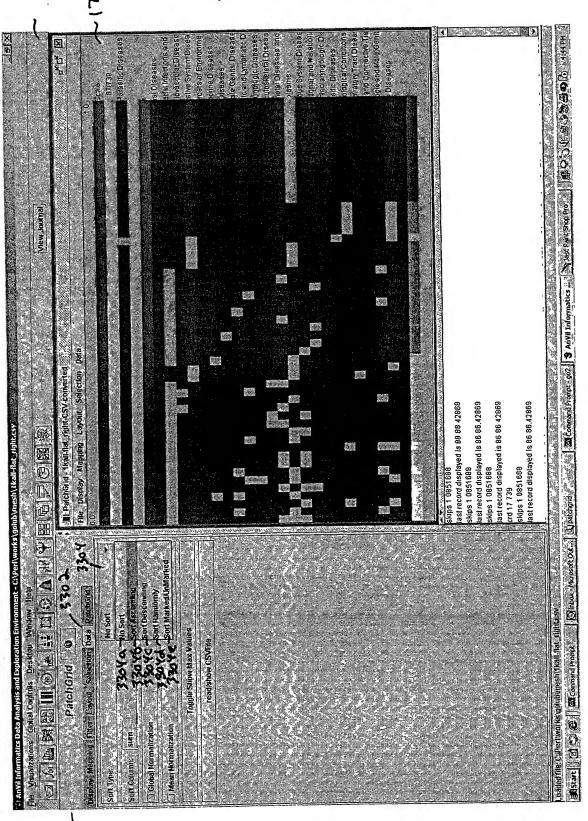


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Title: Method And System For Data Analysis Inventor(s) Hoffman Serial No. Not yet assigned Docket No. ANV-004 Contact: John V Bianco 617-248-7870 Express Mail Label No. EV072530498US Sheet 62 of 79 3200 Halos 中央中央中央中央公司 | A Seath|| 日 こ 毎 || Macominat Prome | 図 nbox s Macosoft...| Spektrond 49111 Nast record displayed is 96 96.57992 skips 1 0951 686 last record displayed is 96 96.57992 skips 1.0851 688 last record displayed is 96 96.57892 skps 1.0851688 ast record displayed is 96 96.57992 ast record displayed is 96 96.57992 skips 1.0851688 ast record displayed is 96 96 57992 skips 1.0851688 skips 1 0851688 last record displayed is 96 96.57992 Skips 1 0651688 last record displayed is 96 96.57992 skips 1 0851688 ast record displayed is 96 96 57992 orks\gotub\mesh\!kall-flat\_right.csV 多器物 阳局四 PatchGrid 0 Show Column Names in Hooting Probe Show Active Columns in Floating Pro Jegion Selection Modes

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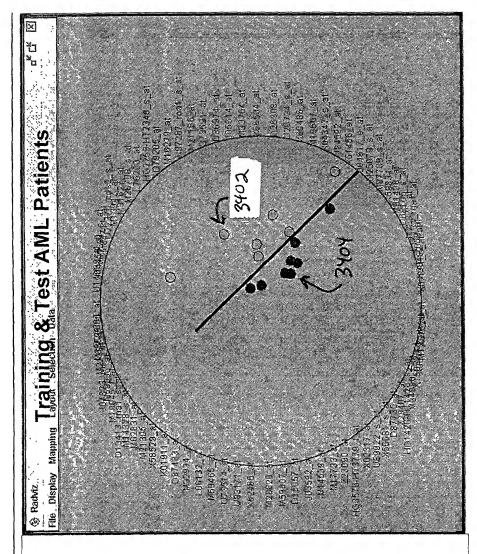
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## Treatment Outcome Prediction



Chemotherapy

76 Gene Predictor Set

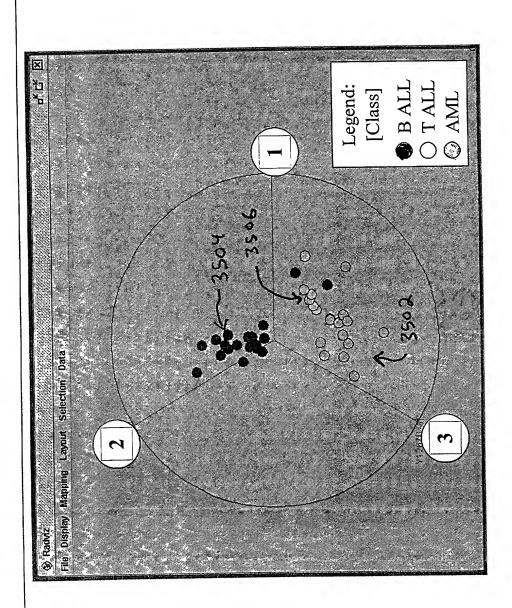
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### Reduced Genes



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### Chemical Structure

Benzodiazepines

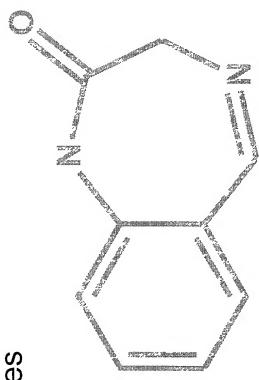


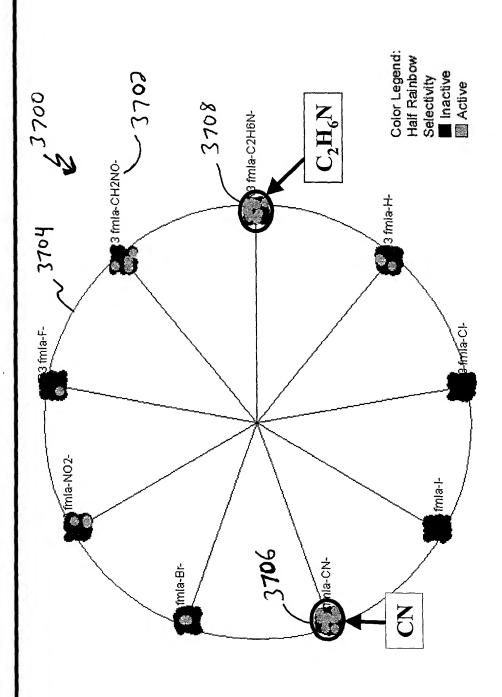
Figure 36

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### Radial Visualization Showing R3 Attributes



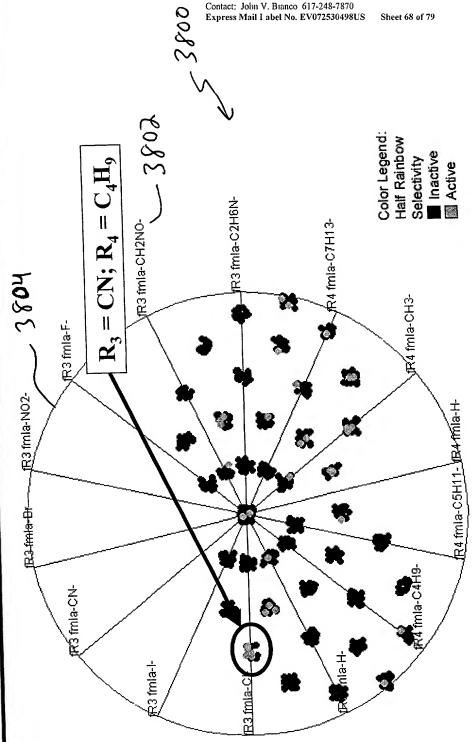


Figure 38

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# Radial Visualization, Showing R3 & R4 Attributes

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Active R3 fmla-C2H6N-(R3 fmla-CH2NOfk4 fmla-C7H13-3804 fmla-CH3 R3 fmla-F-R3 fmla-NO2-(a) R3fma-tr 3 fmla-CN-380g 3 fmla-l-

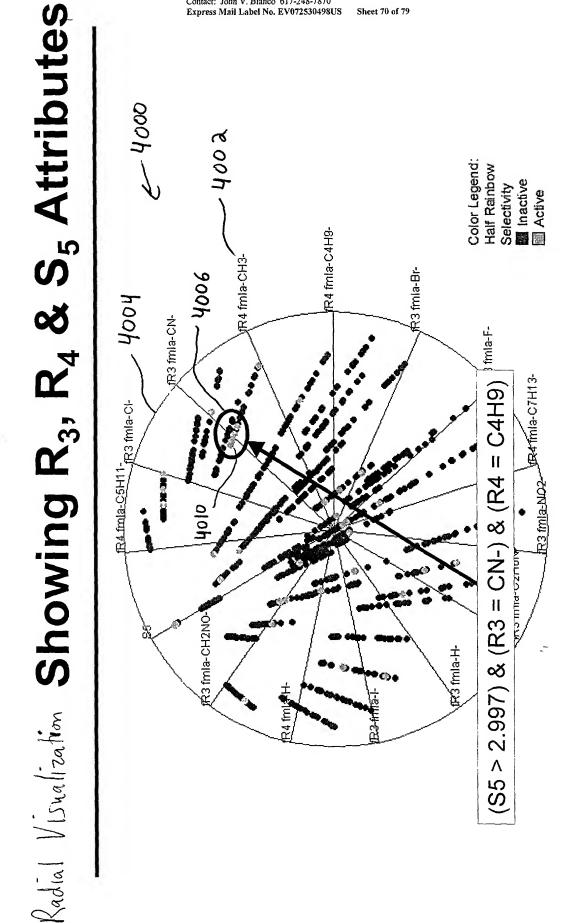
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	R2	C6III 1-	C61111-	C6115-	C6H111-	3810
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****	Assay 2	355.5	456.4	358.8	495.8	
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R4 fmla-C5H11- BA-fmla-H-

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Figure 41

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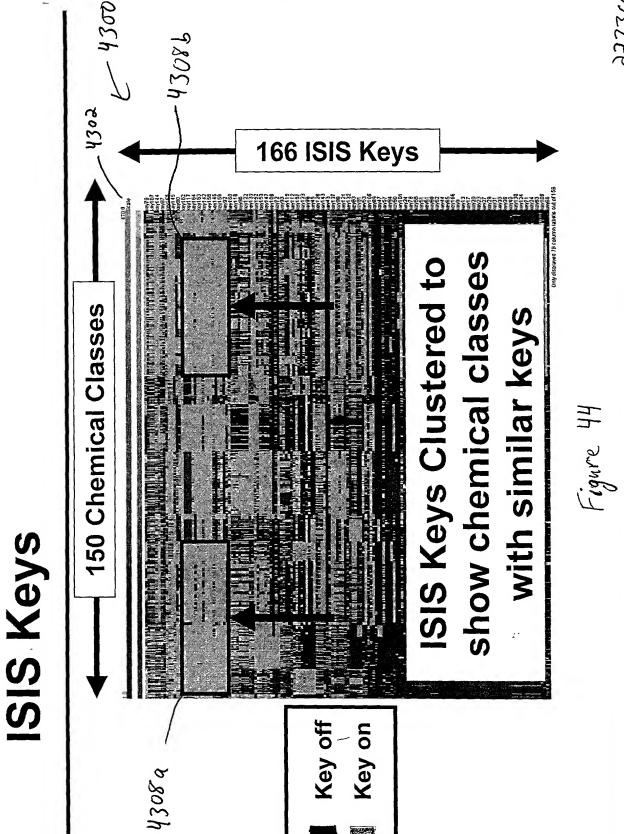
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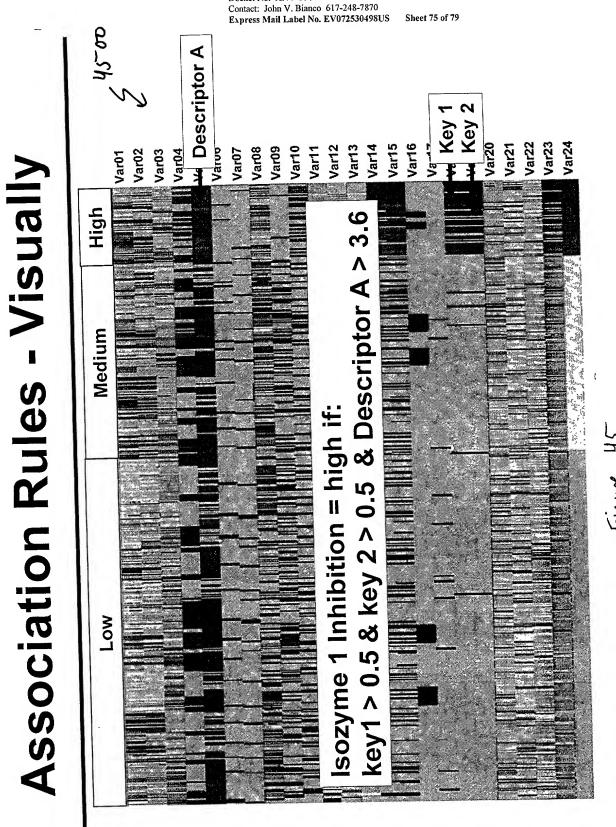
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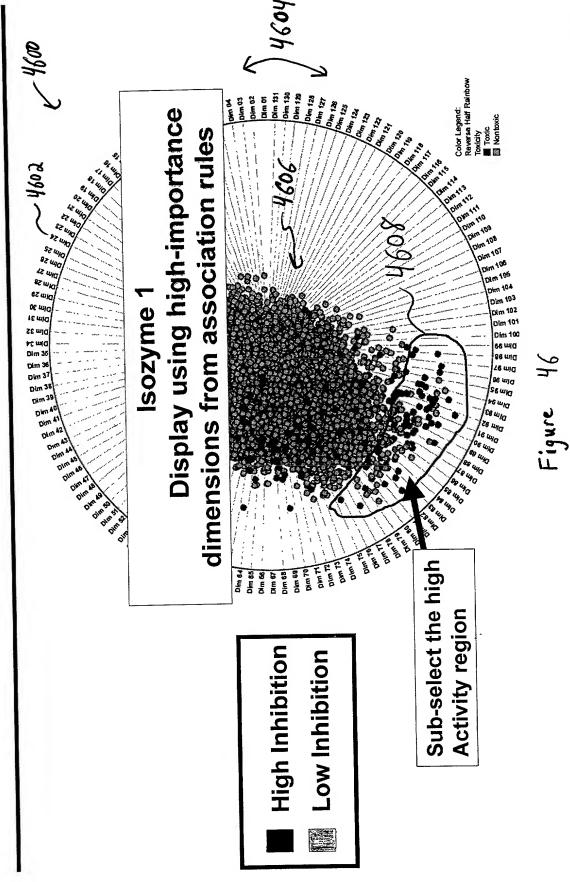


### **Exploratory Overview**

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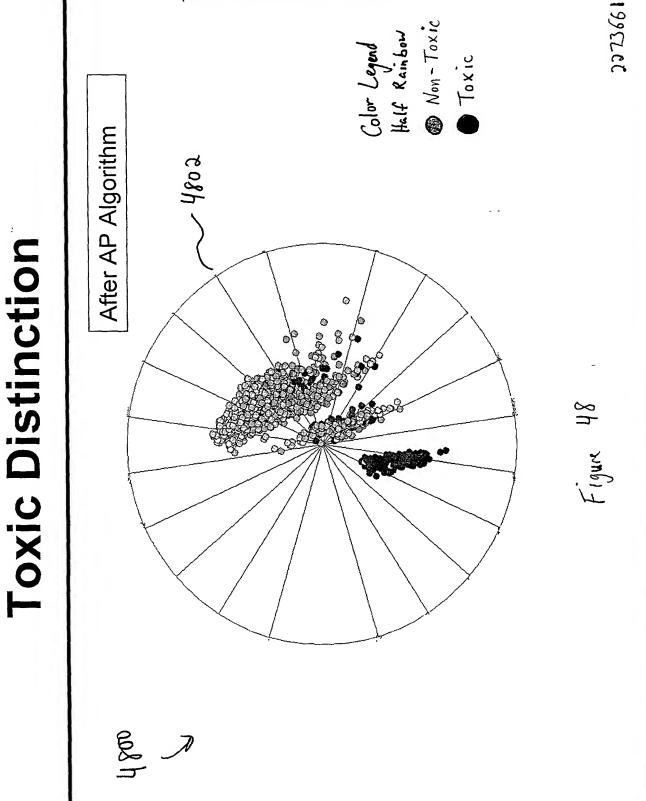
Title: Method And System For Data Analysis Inventor(s). Hoffman Serial No. Not yet assigned Docket No. ANV-004 Contact: John V Bianco 617-248-7870 Express Mail Label No. EV072530498US Sheet 77 of 79 3384985 eoLh **Non-Toxic Enriched** Dim T B WIO Dim S d wig Figure 47 After Genetic Algorithm A mid Dim G **Toxic Enriched** Dim Dim M Dim L

#### **Toxic Distinction**

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